



**STATISTICAL REVIEW OF COUNTING ACCELEROMETER DATA
FOR NAVY AND MARINE FLEET AIRCRAFT
FROM 1 JAN 1962 TO 30 JUN 1982**

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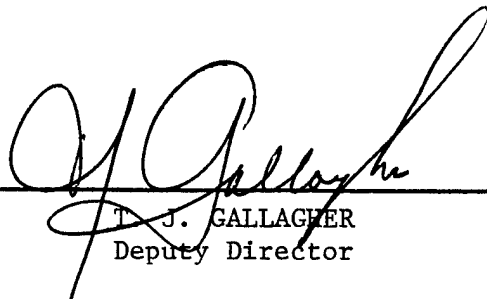
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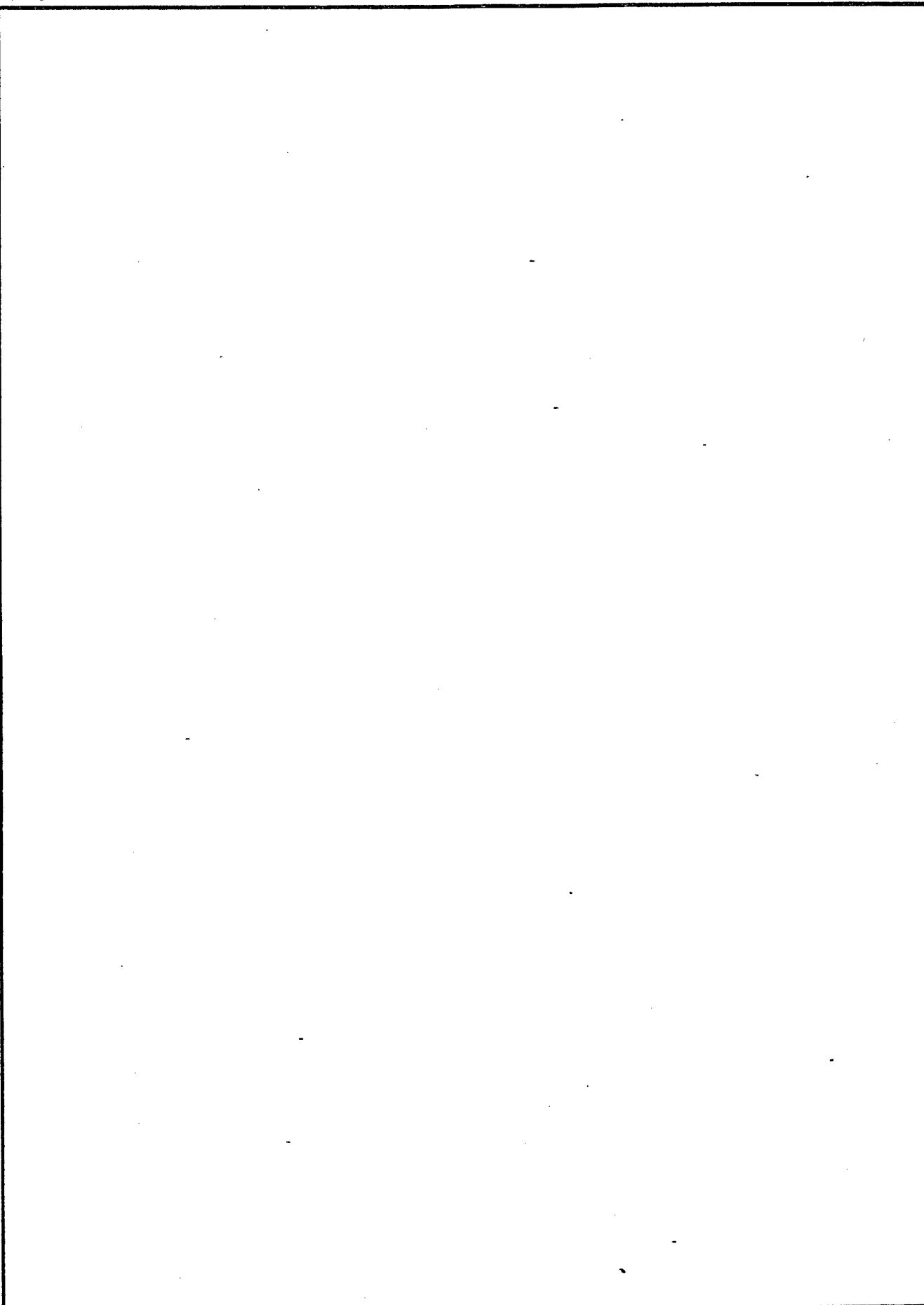
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a specialized summary of normal acceleration data recorded by counting accelerometers. Data are separated by calendar time and mission category. Only data reported in the counting accelerometer program are included.		

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SUMMARY

This is a semiannual progress report, and it presents a specialized summary of the data in the counting accelerometer program. Statistics describing Navy and Marine aircraft cumulative g-count exceedances are calculated and tabulated. These tabulations are separated by calendar time and into four major categories of Fleet experience: Navy Training, Navy Combat, Marine Training, and Marine Combat.

Load rate distributions in counts per 1000 hours are calculated for all g-levels. Distribution statistics (mean, standard deviation, and skewness) are presented for most models.

SPECIAL NOTES

1. This report supersedes and replaces all previous issues of this semiannual report. Previous issue was Report Control Symbol NADC 13920-2, dated 1 May 1982.

2. Additional copies of this report may be obtained from:

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TABLE OF CONTENTS

	<u>PAGE</u>
SUMMARY	1
SPECIAL NOTES	2
INDEX OF CURRENTLY OPERATIONAL MODELS	4
INDEX OF OUT-OF-SERVICE MODELS AND MODELS WHICH HAVE NOT REPORTED COUNTING ACCELEROMETER DATA DURING THE PREVIOUS 12 MONTHS	6
LIST OF SYMBOLS	7
INTRODUCTION.	9
DISCUSSION.	10
TABLES.	13
APPENDIX A - OUT-OF-SERVICE MODELS AND MODELS WHICH HAVE NOT REPORTED COUNTING ACCELEROMETER DATA DURING THE PREVIOUS 12 MONTHS	A-1
APPENDIX B - THE DETERMINATION OF SAMPLE STATISTICS FOR COUNTING ACCELEROMETER DATA	B-1

INDEX OF CURRENTLY OPERATIONAL MODELS

<u>Model</u>	<u>Previous 12 Months Data</u>	<u>All Data</u>
A-4F (Blue Angels)	Page 14	15
A-3B	16	17
KA-3B	18	19
A-4F	20	21
EA-4F	22	23
TA-4F	24	25
TA-4J	26	27
A-4M	28	29
EA-6A	30	31
EA-6B	32	33
KA-6D	34	35
A-6E	36	37
A-7A	38	39
A-7B	40	41
A-7C	42	43
TA-7C	44	45
A-7E	46	47
C-2A	48	49
QF-4B	50	51
RF-4B	52	53
F-4J	54	55
EF-4J	56	57
F-4N	58	59
F-4S	60	61
RF-8G	62	63
DF-8J	64	65
P-3A	66	67
EP-3A	68	69
RP-3A	70	71
P-3B	72	73
EP-3B	74	75
P-3C	76	77
EP-3E	78	79
ES-2D	80	81
S-3A	82	83
T-2C	84	85
T-28B	86	87
T-34C	88	89
T-39D	90	91
T-44A	92	93
AV-8A	94	95
TAV-8A	96	97

INDEX OF OUT-OF-SERVICE MODELS AND MODELS
WHICH HAVE NOT REPORTED COUNTING ACCELEROMETER DATA
DURING THE PREVIOUS 12 MONTHS (APPENDIX A)

<u>Model</u>	<u>All Data</u>
F-4J (Blue Angels)	A-2
F-11A (Blue Angels) (NOTE 1)	A-3
F-11A (Blue Angels) (NOTE 2)	A-4
A-1H	A-5
A-1J	A-6
EKA-3B	A-7
A-4B	A-8
TA-4B	A-9
A-4G	A-10
TA-4G	A-11
A-5A	A-12
A-5B	A-13
RA-5C	A-14
A-6A	A-15
NA-6A	A-16
A-6B	A-17
A-6C	A-18
A-7H	A-19
KC-130F	A-20
AF-1E	A-21
F-4A	A-22
TF-4A	A-23
F-4B	A-24
F-6A	A-25
F-8A	A-26
RF-8A	A-27
TF-8A	A-28
F-8B	A-29
F-8C	A-30
F-8D	A-31
F-8E	A-32
DF-8F	A-33
F-8H	A-34
F-8J	A-35
F-8K	A-36
F-8L	A-37
DF-8L	A-38
EF-10B	A-39
F-11A	A-40
WP-3A	A-41
S-2D	A-42

NOTE 1: Transducer Load Levels (6, 7, 8.5, 10g)

NOTE 2: Transducer Load Levels (4, 5, 6, 7g)

INDEX OF OUR-OF-SERVICE MODELS AND MODELS
WHICH HAVE NOT REPORTED COUNTING ACCELEROMETER DATA
DURING THE PREVIOUS 12 MONTHS (APPENDIX A)

<u>Model</u>	<u>All Data</u>
S-2E	A-43
S-2G	A-44
T-2A	A-45
T-2B	A-46
T-28C	A-47
T-34B	A-48

NOTE 1: Transducer Load Levels (6, 7, 8.5, 10g)

NOTE 2: Transducer Load Levels (4, 5, 6, 7g)

RCS NADC 13920-2

LIST OF SYMBOLS

MEAN OR \bar{X}	MEAN CUMULATIVE COUNTS PER 1000 HOURS
STD DEV OR S	STANDARD DEVIATION OR CUMULATIVE COUNTS PER 1000 HOURS
SKEWNESS OR A_3	SKEWNESS OF LOAD RATE DISTRIBUTION
*	NO DATA IN THIS CATEGORY
**	INSUFFICIENT DATA IN THIS CATEGORY

RCS NADC 13920-2

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INTRODUCTION

The NAVAIRDEVGEN (Naval Air Development Center) is engaged in various flight maneuver-loads programs as assigned by the Naval Air Systems Command. One of these is the counting accelerometer program, and under this program data have been collected and reported since 1955.

The primary purpose of this program is to provide the flight load history of individual Navy and Marine aircraft. Other purposes include, but are not limited to, the comparison of operational loads environment with structural design requirements, the comparison of load histories of one model with another, and the determination of expected loads environment of future models. More recently, however, these data are used as the major input in the NAVAIRDEVGEN Aircraft Structural Appraisal of Fatigue Effects Program in estimating structural fatigue damage for those aircraft which do not have counting accelerometer data.

DISCUSSION

This is a semi-annual progress report. Included are statistical summaries of counting accelerometer data for all Navy and Marine aircraft. In-service models appear in the main text. Out-of-service models or models which have not reported counting accelerometer data during the previous 12 months appear in Appendix A. The summary for each out-of-service model is its final summary. New models are added as their counting accelerometer data becomes available.

For each model, the following statistics are presented: (See Appendix B for the statistical procedures.)

\bar{x} - the estimated mean load exceedances (counts at 1000 ft. hrs.) for each g-level recorded on the counting accelerometer.

S - estimated standard deviation (counts at 1000 ft. hrs.) of the load exceedances for each g-level.

A_3 - estimated skewness factor for the load exceedance distribution.

Two statistical summaries describing cumulative g-count exceedances and flight hours for each currently operational model are presented:

1. The first summary includes all quality-control accepted data reported in the time period comprising the terminal date of this report and the 12 months preceding that date.

2. The second includes all quality-control accepted data reported in the counting accelerometer program from the day each airplane was delivered for service to the terminal date of this report.

The first summary, which includes only the most recent 12 months, shows an indication of a model's current severity of usage. The second summary describes the severity of loads experienced by all airplanes of each model since acceptance. A comparison of the first summary with the second shows whether current usage for any model is more or less severe than usage over its full lifetime.

A further breakdown by mission category is provided for each airplane model in both of the aforementioned summaries. These categories are defined as follows:

1. Navy Training - an airplane in a Navy squadron assigned to a non-combat zone. (This includes all Navy airplanes not classified as being in a combat zone.)

2. Navy Combat - an airplane in a Navy squadron assigned to a combat zone.

3. Marine Training - an airplane in a Marine squadron assigned to a non-combat zone. (This includes all Marine airplanes not classified as being in a combat zone.)

4. Marine Combat - an airplane in a Marine squadron assigned to a combat zone.

The statistics for the A-4F Blue Angels are separated into solo aircraft and diamond formation aircraft. In the subsequent tables, the total flight hours shown for a given model are the sum of the hours reported for each category. However, summing the number of airplanes reported in each category can result in a number exceeding the total aircraft, because the same airplane may have seen service in two or more categories. Its data were separated for calculation of statistics for each respective category.

Some general statistical observations for fleet-wide loads data are the following:

1. The load exceedance distribution for many of the aircraft models is non-normal (particularly asymmetrical) at all the g-levels recorded. In general, the degree of asymmetry increases with increasing g-level.

2. The scatter measure $\frac{S}{\bar{x}}$ (coefficient of variation) increases with higher g-levels.

3. For a given g-level, there is more scatter in loads received during training than during combat.

4. Differences exist in loads frequency among various configurations of the same model and various mission categories within the same configuration.

RCS NADC 13920-2

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T A B L E S

COUNTING ACCELEROMETER DATA ARE SUBJECT TO QUALITY CONTROL CRITERIA MODIFICATIONS. THUS, IN SUCCEEDING REPORTS, MODEL-WIDE SUMMARY STATISTICS ARE SUBJECT TO CHANGE EVEN THOUGH A MODEL MAY NO LONGER BE IN SERVICE.

DATA FROM
7-81 THRU 6-82MODEL A-4F BLUE ANGELS

8 AIRCRAFT 1419 HOURS

SOLO

	PRACTICE -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
7 AIRCRAFT	MEAN	7702.00	1975.00	239.00	30.00
369 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	SHOW -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
5 AIRCRAFT	MEAN	14258.00	4067.00	607.00	124.00
89 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

DIAMOND

	PRACTICE -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
8 AIRCRAFT	MEAN	900.00	186.00	10.00	1.00
787 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	SHOW -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
6 AIRCRAFT	MEAN	2101.00	608.00	63.00	11.00
174 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

ALL DATA
THRU 6-82MODEL A-4F BLUE ANGELS

11 AIRCRAFT 12562 HOURS

SOLO

	PRACTICE -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
11 AIRCRAFT	MEAN	7310.00	1708.00	219.00	32.00
3143 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	SHOW -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
11 AIRCRAFT	MEAN	14004.00	4573.00	790.00	118.00
846 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

DIAMOND

	PRACTICE -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
11 AIRCRAFT	MEAN	1183.00	285.00	51.00	7.00
6747 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	SHOW -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
10 AIRCRAFT	MEAN	2402.00	772.00	174.00	33.00
1826 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

DATA FROM
7-81 THRU 6-82MODEL A-3B

1 AIRCRAFT 89 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
1 AIRCRAFT MEAN		11.21	.00	.00	.00
89 HOURS STD DEV		**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL A-3B

80 AIRCRAFT 65970 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
80 AIRCRAFT	MEAN	709.66	173.40	50.86	7.79
57175 HOURS	STD DEV	403.62	113.83	37.07	9.66
	SKEWNESS	1.61	.89	.93	2.63

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
25 AIRCRAFT	MEAN	564.20	121.21	27.39	5.04
8795 HOURS	STD DEV	249.09	75.35	25.68	6.67
	SKEWNESS	1.11	.98	1.64	2.05

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL KA-3B

7 AIRCRAFT 1427 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
7 AIRCRAFT MEAN		82.83	26.03	4.73	.00
1427 HOURS STD DEV		41.69	13.10	2.38	.00
	SKEWNESS	.17	.17	.17	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL KA-3B

51 AIRCRAFT 51831 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
50 AIRCRAFT MEAN		80.58	11.40	2.79	.61
48803 HOURS STD DEV		136.77	16.88	4.25	1.67
	SKEWNESS	2.15	1.47	1.50	4.08

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
11 AIRCRAFT MEAN		172.44	30.93	5.69	.19
3028 HOURS STD DEV		47.42	17.09	5.41	.59
	SKEWNESS	.51	1.14	.88	2.69

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL A-4F

30 AIRCRAFT 4889 HOURS

NAVY

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
30 AIRCRAFT	MEAN	723.85	123.02	22.34	4.66
4889 HOURS	STD DEV	413.25	83.19	16.45	4.34
	SKEWNESS	1.09	1.60	2.08	3.68

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL A-4F

75 AIRCRAFT 68683 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
75 AIRCRAFT MEAN		576.64	90.24	12.14	3.08
58314 HOURS STD DEV		335.81	86.70	28.74	11.76
	SKEWNESS	.65	1.34	3.82	3.95

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
24 AIRCRAFT MEAN		506.23	151.12	22.07	2.29
5983 HOURS STD DEV		114.42	40.87	7.99	1.65
	SKEWNESS	-.20	.42	.25	1.22

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
13 AIRCRAFT MEAN		748.95	136.85	15.68	3.56
4386 HOURS STD DEV		240.08	61.79	12.93	4.76
	SKEWNESS	-.70	-.42	1.52	2.48

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL EA-4F

3 AIRCRAFT 734 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
3 AIRCRAFT MEAN		41.31	5.09	.00	.00
734 HOURS STD DEV		**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL EA-4F

4 AIRCRAFT 8609 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
4 AIRCRAFT MEAN		88.09	11.46	1.40	.00
8609 HOURS STD DEV		122.33	17.06	1.65	.00
	SKEWNESS	-.02	.00	.03	I

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL TA-4F

14 AIRCRAFT 3160 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
10 AIRCRAFT	MEAN	480.27	48.39	1.75	.23
2464 HOURS	STD DEV	239.23	34.56	3.27	.66
	SKEWNESS	1.55	1.77	2.42	2.54

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
4 AIRCRAFT	MEAN	527.92	10.29	.00	.00
695 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL TA-4F

166 AIRCRAFT 205555 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
144 AIRCRAFT	MEAN	209.37	28.44	2.11	.32
164971 HOURS	STD DEV	227.82	68.07	4.15	1.06
	SKEWNESS	1.68	7.50	3.31	4.31

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
8 AIRCRAFT	MEAN	564.76	58.22	3.34	.73
2158 HOURS	STD DEV	149.00	21.08	2.38	.52
	SKEWNESS	-.38	-.64	.97	.38

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
43 AIRCRAFT	MEAN	634.60	75.33	6.17	.73
38426 HOURS	STD DEV	428.48	95.87	11.35	2.11
	SKEWNESS	1.40	4.29	4.25	5.06

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL TA-4J

257 AIRCRAFT 88865 HOURS

NAVY

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
257 AIRCRAFT	MEAN	346.60	30.19	3.92	.59
88865 HOURS	STD DEV	252.31	40.91	12.81	2.68
	SKEWNESS	4.00	4.18	9.56	10.44

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL TA-4J

379 AIRCRAFT 1049443 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
377 AIRCRAFT	MEAN	293.50	28.15	3.42	.62
1034587 HOURS	STD DEV	308.74	51.51	9.47	3.00
	SKEWNESS	2.94	3.31	3.97	9.05

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
24 AIRCRAFT	MEAN	186.24	10.83	.48	.14
14856 HOURS	STD DEV	67.92	9.32	.76	.34
	SKEWNESS	1.21	1.63	2.26	2.40

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL A-4M

79 AIRCRAFT 10656 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
18 AIRCRAFT	MEAN	352.96	27.31	3.10	.93
881 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
71 AIRCRAFT	MEAN	607.63	56.03	7.64	4.80
9775 HOURS	STD DEV	531.84	69.51	7.52	7.05
	SKEWNESS	6.52	6.02	4.44	5.96

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL A-4M

142 AIRCRAFT 122590 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
32 AIRCRAFT	MEAN	944.00	130.73	23.73	2.44
7224 HOURS	STD DEV	471.57	171.73	37.17	2.63
	SKEWNESS	2.04	4.12	4.24	2.26

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
136 AIRCRAFT	MEAN	457.72	46.04	7.22	1.56
115366 HOURS	STD DEV	307.92	51.09	10.69	3.81
	SKEWNESS	2.41	3.30	2.35	3.71

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL EA-6A

18 AIRCRAFT 3709 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
18 AIRCRAFT MEAN		172.76	19.61	1.17	.30
3709 HOURS STD DEV		88.68	15.57	1.02	.51
	SKEWNESS	.89	2.36	1.82	3.35

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL EA-6A

25 AIRCRAFT 35874 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
18 AIRCRAFT	MEAN	99.08	13.02	.70	.14
7283 HOURS	STD DEV	118.39	21.29	1.26	.37
	SKEWNESS	1.58	2.68	2.22	3.42

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
22 AIRCRAFT	MEAN	53.51	4.45	.34	.00
28153 HOURS	STD DEV	39.89	4.64	.61	.19
	SKEWNESS	.97	1.53	.83	4.37

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
5 AIRCRAFT	MEAN	10.56	1.51	.00	.00
438 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

DATA FROM
7-81 THRU 6-82MODEL EA-6B

67 AIRCRAFT 21706 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
60 AIRCRAFT	MEAN	152.13	21.99	1.74	.45
17837 HOURS	STD DEV	89.37	25.44	3.52	.97
	SKEWNESS	1.92	5.28	4.23	3.88

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
14 AIRCRAFT	MEAN	243.97	24.29	2.20	.18
3869 HOURS	STD DEV	98.86	11.74	2.07	.52
	SKEWNESS	.85	.82	1.56	3.16

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL EA-6B

85 AIRCRAFT 144770 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
83 AIRCRAFT	MEAN	137.48	18.56	1.40	.29
130915 HOURS	STD DEV	100.41	22.81	3.41	.85
	SKEWNESS	1.33	2.35	2.62	2.88

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
1 AIRCRAFT	MEAN	140.85	.00	.00	.00
7 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
14 AIRCRAFT	MEAN	191.96	16.61	1.19	.41
13848 HOURS	STD DEV	81.17	10.63	2.46	1.05
	SKEWNESS	.17	.68	1.46	2.48

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL KA-6D

51 AIRCRAFT 13247 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
51 AIRCRAFT MEAN		30.38	2.50	.27	.05
13247 HOURS STD DEV		40.65	3.18	1.10	.83
	SKEWNESS	4.62	2.23	4.06	6.92

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL KA-6D

77 AIRCRAFT 138593 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
77 AIRCRAFT	MEAN	26.63	2.42	.39	.12
130138 HOURS	STD DEV	61.78	4.85	1.19	.66
	SKEWNESS	5.11	3.45	2.34	4.80

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
33 AIRCRAFT	MEAN	22.59	3.75	.87	.00
8455 HOURS	STD DEV	16.38	4.20	1.72	.00
	SKEWNESS	1.05	2.39	3.51	I

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL A-6E

218 AIRCRAFT 55944 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
167 AIRCRAFT	MEAN	891.99	200.86	25.15	2.48
39211 HOURS	STD DEV	324.47	126.55	19.97	3.77
	SKEWNESS	2.82	4.67	2.31	4.00

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
66 AIRCRAFT	MEAN	1462.67	356.89	48.62	4.27
16733 HOURS	STD DEV	398.33	162.68	33.57	5.38
	SKEWNESS	.60	3.08	3.30	3.58

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL A-6E

356 AIRCRAFT 425430 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
326 AIRCRAFT	MEAN	1031.53	237.16	26.13	2.84
316753 HOURS	STD DEV	431.78	146.62	25.28	4.03
	SKEWNESS	.80	1.28	2.07	2.43

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
113 AIRCRAFT	MEAN	863.27	177.05	23.86	2.93
108677 HOURS	STD DEV	381.78	122.79	26.31	4.51
	SKEWNESS	.76	1.59	1.73	2.18

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL A-7A

2 AIRCRAFT 151 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
2 AIRCRAFT	MEAN	1111.69	360.13	.00	.00
151 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL A-7A

194 AIRCRAFT 318148 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
194 AIRCRAFT	MEAN	1061.53	244.00	29.11	2.70
253473 HOURS	STD DEV	467.77	169.18	37.17	4.61
	SKEWNESS	.35	1.93	4.45	3.59

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
133 AIRCRAFT	MEAN	765.97	242.17	32.86	2.62
64675 HOURS	STD DEV	157.84	77.57	15.90	2.44
	SKEWNESS	.21	1.61	.86	1.77

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL A-7B

65 AIRCRAFT 14288 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
65 AIRCRAFT MEAN		1319.83	299.11	29.56	2.07
14288 HOURS STD DEV		309.13	128.68	25.25	2.29
	SKEWNESS	.65	1.73	3.09	2.30

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL A-7B

122 AIRCRAFT 153950 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
121 AIRCRAFT	MEAN	1083.11	294.52	39.29	6.58
145131 HOURS	STD DEV	375.19	167.16	49.83	13.39
	SKEWNESS	.81	1.42	2.17	3.44

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
28 AIRCRAFT	MEAN	1297.37	434.41	59.01	4.19
8820 HOURS	STD DEV	349.87	119.17	33.47	4.66
	SKEWNESS	.14	.83	2.97	3.53

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL A-7C

5 AIRCRAFT 736 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
5 AIRCRAFT MEAN		261.41	46.41	1.21	.00
736 HOURS STD DEV		**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL A-7C

47 AIRCRAFT 48286 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
46 AIRCRAFT	MEAN	924.65	181.18	20.90	2.83
40700 HOURS	STD DEV	711.68	195.95	42.53	6.48
	SKEWNESS	.62	1.85	3.57	3.98

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
22 AIRCRAFT	MEAN	660.69	151.23	17.98	2.11
7587 HOURS	STD DEV	175.62	43.50	18.49	12.62
	SKEWNESS	1.49	.70	3.53	4.31

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL TA-7C

43 AIRCRAFT 11348 HOURS

NAVY

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
43 AIRCRAFT	MEAN	766.43	87.56	6.18	3.51
11348 HOURS	STD DEV	352.18	49.68	8.94	8.54
	SKEWNESS	.57	1.08	4.97	5.77

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL TA-7C

59 AIRCRAFT 48295 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
59 AIRCRAFT	MEAN	1048.29	175.94	11.18	1.85
48295 HOURS	STD DEV	599.70	133.25	16.46	6.46
	SKEWNESS	-.57	.17	2.47	4.24

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL A-7E

312 AIRCRAFT 96974 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
312 AIRCRAFT	MEAN	578.89	83.38	7.44	1.63
96974 HOURS	STD DEV	287.28	67.11	9.70	3.43
	SKEWNESS	2.02	2.80	3.85	4.63

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL A-7E

462 AIRCRAFT 808453 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
462 AIRCRAFT	MEAN	643.62	97.48	7.29	1.25
800285 HOURS	STD DEV	356.35	95.61	16.51	3.30
	SKEWNESS	1.75	3.75	10.00	3.89

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
37 AIRCRAFT	MEAN	315.03	61.92	4.84	.68
8168 HOURS	STD DEV	60.51	19.82	2.91	1.06
	SKEWNESS	.04	.26	1.67	4.35

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL C-2A

5 AIRCRAFT 956 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
5 AIRCRAFT MEAN		68.94	3.18	.76	.00
956 HOURS STD DEV		**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL C-2A

16 AIRCRAFT 58214 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
16 AIRCRAFT MEAN		44.59	12.31	4.90	1.22
58214 HOURS STD DEV		58.53	24.93	12.14	3.52
	SKEWNESS	2.11	2.31	2.15	1.94

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL QF-4B

4 AIRCRAFT 143 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
4 AIRCRAFT	MEAN	411.70	89.25	7.92	.00
143 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL QF-4B

13 AIRCRAFT 1319 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
13 AIRCRAFT MEAN		795.63	240.41	53.93	15.60
1319 HOURS STD DEV		183.65	87.58	14.30	5.47
	SKEWNESS	2.08	2.67	.76	.21

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL RF-4B

20 AIRCRAFT 4411 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
13 AIRCRAFT	MEAN	1993.41	748.81	191.45	25.69
952 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
16 AIRCRAFT	MEAN	1131.66	418.08	85.75	17.52
3459 HOURS	STD DEV	222.88	104.77	26.98	6.61
	SKEWNESS	-.25	.48	.38	.61

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL RF-4B

46 AIRCRAFT 88587 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
15 AIRCRAFT	MEAN	1957.18	734.76	187.67	25.16
1041 HOURS	STD DEV	336.02	134.24	42.52	6.90
	SKEWNESS	-.40	-.51	-.00	.36

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
46 AIRCRAFT	MEAN	469.92	126.25	30.13	7.03
79531 HOURS	STD DEV	341.55	109.31	32.83	11.50
	SKEWNESS	.41	.79	1.29	2.81

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
16 AIRCRAFT	MEAN	1087.24	210.75	41.81	8.94
8015 HOURS	STD DEV	405.94	78.46	26.06	5.37
	SKEWNESS	1.58	1.80	2.18	1.10

DATA FROM
7-81 THRU 6-82MODEL F-4J

105 AIRCRAFT 14861 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
75 AIRCRAFT	MEAN	1494.69	418.08	67.31	7.70
6262 HOURS	STD DEV	441.97	150.01	34.81	9.67
	SKEWNESS	1.88	1.32	2.13	4.14

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
62 AIRCRAFT	MEAN	3738.81	1066.17	142.75	11.54
8599 HOURS	STD DEV	744.43	263.34	44.01	7.66
	SKEWNESS	.09	.07	.62	1.77

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL F-4J

470 AIRCRAFT 777631 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
450 AIRCRAFT	MEAN	2745.44	1023.71	298.62	66.81
470489 HOURS	STD DEV	1667.70	782.73	309.67	93.87
	SKEWNESS	.92	.99	1.64	2.49

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
177 AIRCRAFT	MEAN	1115.45	457.87	137.67	34.53
53574 HOURS	STD DEV	340.65	157.45	64.45	36.91
	SKEWNESS	1.84	2.86	2.68	4.38

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
279 AIRCRAFT	MEAN	4234.87	1529.99	434.29	112.66
243638 HOURS	STD DEV	1494.70	624.56	277.85	108.04
	SKEWNESS	1.08	1.13	1.54	2.11

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
50 AIRCRAFT	MEAN	2807.54	1311.42	412.74	76.82
9931 HOURS	STD DEV	619.72	264.73	169.96	47.34
	SKEWNESS	2.57	2.24	1.89	1.61

DATA FROM
7-81 THRU 6-82MODEL EF-4J

1 AIRCRAFT

91 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
1 AIRCRAFT	MEAN	350.49	.00	.00	.00
91 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL EF-4J

2 AIRCRAFT 532 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
2 AIRCRAFT	MEAN	413.72	64.10	10.06	.00
532 HOURS	STD DEV	8.34	.21	1.78	.00
	SKEWNESS	.44	-.44	.44	I

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL F-4N

111 AIRCRAFT 14605 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
85 AIRCRAFT	MEAN	2318.35	828.33	184.15	27.31
9373 HOURS	STD DEV	712.11	267.55	62.48	17.36
	SKEWNESS	.91	1.21	1.11	3.71

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
37 AIRCRAFT	MEAN	4348.85	1311.49	204.95	15.70
5233 HOURS	STD DEV	472.61	187.43	34.01	8.15
	SKEWNESS	1.12	.64	.37	2.44

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL F-4N

216 AIRCRAFT 144093 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
178 AIRCRAFT	MEAN	2958.86	1234.77	340.36	60.91
93512 HOURS	STD DEV	973.16	451.18	153.58	39.39
	SKEWNESS	1.77	1.34	1.03	1.68

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
7 AIRCRAFT	MEAN	1282.91	537.08	162.76	35.94
189 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
80 AIRCRAFT	MEAN	3973.98	1338.40	285.08	41.12
50392 HOURS	STD DEV	845.73	408.11	169.12	40.91
	SKEWNESS	1.48	2.10	2.32	2.41

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL F-4S

157 AIRCRAFT 28912 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
73 AIRCRAFT	MEAN	3038.33	1229.49	279.50	38.54
13984 HOURS	STD DEV	818.15	352.88	91.47	20.16
	SKEWNESS	.53	.65	1.74	3.39

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
85 AIRCRAFT	MEAN	3356.52	987.41	150.73	14.28
14928 HOURS	STD DEV	499.33	183.24	47.94	11.77
	SKEWNESS	.18	.33	2.19	5.41

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL F-4S

167 AIRCRAFT 67653 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
80 AIRCRAFT	MEAN	3268.87	1302.93	313.65	46.97
24669 HOURS	STD DEV	1004.20	447.85	142.45	33.33
	SKEWNESS	.57	1.06	2.46	3.02

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
91 AIRCRAFT	MEAN	3863.58	1218.65	207.64	24.04
42984 HOURS	STD DEV	631.31	339.20	110.17	26.05
	SKEWNESS	.29	1.83	3.10	4.43

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL RF-8G

21 AIRCRAFT 4119 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
21 AIRCRAFT	MEAN	581.10	179.06	50.43	6.62
4119 HOURS	STD DEV	291.73	113.24	38.81	11.19
	SKEWNESS	.90	1.21	1.74	2.59

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL RF-8G

54 AIRCRAFT 62192 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
54 AIRCRAFT	MEAN	419.79	122.89	27.40	4.23
61000 HOURS	STD DEV	360.72	123.20	30.10	8.69
	SKEWNESS	1.01	1.19	1.50	3.68

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
11 AIRCRAFT	MEAN	1481.32	391.60	63.37	8.37
1192 HOURS	STD DEV	387.16	90.25	26.29	5.98
	SKEWNESS	1.13	1.89	1.75	1.30

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL DF-8J

0 AIRCRAFT

0 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL DF-8J

5 AIRCRAFT 1734 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
5 AIRCRAFT MEAN		809.72	190.33	34.35	5.72
1734 HOURS STD DEV		267.49	60.42	22.29	5.66
	SKEWNESS	-.93	-1.12	.85	1.02

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL P-3A

92 AIRCRAFT 30196 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
92 AIRCRAFT	MEAN	2.26	.14	.08	.00
30196 HOURS	STD DEV	3.24	.79	.73	.00
	SKEWNESS	3.53	7.57	9.38	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL P-3A

150 AIRCRAFT 1135850 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
150 AIRCRAFT	MEAN	13.26	1.16	.15	.02
1046195 HOURS	STD DEV	56.51	3.98	1.30	.23
	SKEWNESS	8.35	5.93	8.87	6.65

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
99 AIRCRAFT	MEAN	12.40	1.10	.09	.01
89654 HOURS	STD DEV	15.05	2.38	.41	.11
	SKEWNESS	2.81	2.41	3.95	9.74

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL EP-3A

3 AIRCRAFT 1071 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
3 AIRCRAFT MEAN		.00	.00	.00	.00
1071 HOURS STD DEV		.00	.00	.00	.00
	SKEWNESS	I	I	I	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL EP-3A

3 AIRCRAFT 6013 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
3 AIRCRAFT MEAN		.51	.42	.14	.00
6013 HOURS STD DEV		1.85	1.25	.42	.00
	SKEWNESS	.41	.39	.39	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL RP-3A

4 AIRCRAFT 2304 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
4 AIRCRAFT MEAN		2.58	.64	.00	.00
2304 HOURS STD DEV		1.72	.43	.00	.00
	SKEWNESS	-.20	-.20	I	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL RP-3A

4 AIRCRAFT 18829 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
4 AIRCRAFT	MEAN	2.80	.27	.13	.00
18829 HOURS	STD DEV	5.51	.79	.39	.00
	SKEWNESS	.15	.11	.19	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL P-3B

106 AIRCRAFT 60476 HOURS

NAVY

	TRAINING -----	2.0G ----	2.5G ----	3.0G ----	3.5G ----
106 AIRCRAFT	MEAN	3.40	.41	.08	.01
60476 HOURS	STD DEV	4.91	1.07	.25	.13
	SKEWNESS	3.10	5.60	4.62	10.05

	COMBAT -----	2.0G ----	2.5G ----	3.0G ----	3.5G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G ----	2.5G ----	3.0G ----	3.5G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G ----	2.5G ----	3.0G ----	3.5G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL P-3B

127 AIRCRAFT 1174643 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
127 AIRCRAFT	MEAN	7.21	.69	.11	.03
1087512 HOURS	STD DEV	25.30	3.41	.99	.51
	SKEWNESS	3.23	5.73	6.00	8.20

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
78 AIRCRAFT	MEAN	4.90	.44	.03	.01
87131 HOURS	STD DEV	5.51	.82	.15	.11
	SKEWNESS	.66	2.77	5.63	8.38

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL EP-3B

3 AIRCRAFT 1909 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
3 AIRCRAFT MEAN		10.23	1.07	.55	.00
1909 HOURS STD DEV		9.38	4.36	4.39	.00
	SKEWNESS	.85	.88	.91	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL EP-3B

3 AIRCRAFT 31815 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
3 AIRCRAFT	MEAN	2.34	.06	.02	.00
23038 HOURS	STD DEV	3.88	1.53	1.53	.00
	SKEWNESS	.92	.92	.94	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
2 AIRCRAFT	MEAN	3.95	.54	.00	.00
8778 HOURS	STD DEV	4.89	.97	.00	.00
	SKEWNESS	-.26	-.26	I	I

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL P-3C

197 AIRCRAFT 115372 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
197 AIRCRAFT	MEAN	5.91	1.01	.32	.25
115372 HOURS	STD DEV	9.89	4.45	2.22	2.18
	SKEWNESS	3.09	8.47	8.31	8.72

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL P-3C

221 AIRCRAFT 775887 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
221 AIRCRAFT	MEAN	3.22	.37	.08	.04
775552 HOURS	STD DEV	10.25	2.71	1.18	.90
	SKEWNESS	3.47	5.10	6.74	8.68

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
2 AIRCRAFT	MEAN	.00	.00	.00	.00
335 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL EP-3E

9 AIRCRAFT 5363 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
9 AIRCRAFT MEAN		2.61	.34	.15	.00
5363 HOURS STD DEV		2.70	.98	.44	.00
	SKEWNESS	.70	1.81	2.15	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL EP-3E

10 AIRCRAFT 56147 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
10 AIRCRAFT MEAN		1.75	.13	.07	.00
56147 HOURS STD DEV		1.30	.91	.82	.00
	SKEWNESS	-.98	1.79	2.49	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL ES-2D

0 AIRCRAFT

0 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL ES-2D

7 AIRCRAFT 12105 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
7 AIRCRAFT	MEAN	5.27	.67	.20	.00
12105 HOURS	STD DEV	10.70	.98	.30	.00
	SKEWNESS	.88	.41	.03	I

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL S-3A

120 AIRCRAFT 40244 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
120 AIRCRAFT MEAN		1224.22	473.80	171.54	52.44
40244 HOURS STD DEV		411.71	184.50	79.80	26.54
	SKEWNESS	1.41	1.64	1.78	1.34

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL S-3A

178 AIRCRAFT 260513 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
178 AIRCRAFT	MEAN	1254.89	464.36	151.83	42.49
260513 HOURS	STD DEV	637.54	258.67	91.16	30.83
	SKEWNESS	1.35	1.01	.03	.09

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL T-2C

169 AIRCRAFT 70483 HOURS

NAVY

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
169 AIRCRAFT	MEAN	184.45	18.30	1.71	.60
70483 HOURS	STD DEV	234.39	31.54	3.18	1.87
	SKEWNESS	6.16	10.64	4.87	5.44

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL T-2C

215 AIRCRAFT 475875 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
215 AIRCRAFT	MEAN	144.88	15.77	1.89	.30
475875 HOURS	STD DEV	191.80	25.20	3.81	1.35
	SKEWNESS	2.04	4.07	2.79	3.76

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL T-28B

13 AIRCRAFT 6617 HOURS

NAVY

	TRAINING -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
13 AIRCRAFT	MEAN	950.56	36.44	2.92	.16
6617 HOURS	STD DEV	901.75	19.45	1.67	.39
	SKEWNESS	2.23	.87	.07	2.73

	COMBAT -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL T-28B

98 AIRCRAFT 505235 HOURS

NAVY

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
98 AIRCRAFT	MEAN	384.34	43.91	4.07	.32
505235 HOURS	STD DEV	649.81	107.66	20.57	2.27
	SKEWNESS	.72	2.05	4.76	5.16

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL T-34C

169 AIRCRAFT 127501 HOURS

NAVY

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
169 AIRCRAFT	MEAN	574.98	77.88	4.30	.38
127501 HOURS	STD DEV	162.63	37.62	5.35	1.03
	SKEWNESS	4.71	6.77	6.05	4.34

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL T-34C

179 AIRCRAFT 383736 HOURS

NAVY

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
179 AIRCRAFT	MEAN	591.44	82.67	4.53	.65
383736 HOURS	STD DEV	162.75	65.37	7.92	2.46
	SKEWNESS	3.63	7.86	4.07	5.06

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL T-39D

5 AIRCRAFT 1269 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
5 AIRCRAFT MEAN		1199.99	80.75	7.90	.00
1269 HOURS STD DEV		916.97	51.87	5.06	.00
	SKEWNESS	.50	.27	-.05	1

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL T-39D

7 AIRCRAFT 11684 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
7 AIRCRAFT	MEAN	776.37	65.37	14.20	5.12
11684 HOURS	STD DEV	1210.42	182.22	50.48	21.84
	SKEWNESS	.31	1.65	1.72	1.73

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL T-44A

52 AIRCRAFT 38971 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
52 AIRCRAFT	MEAN	46.61	6.72	1.28	.14
38971 HOURS	STD DEV	46.52	21.15	5.11	.41
	SKEWNESS	5.01	6.59	6.55	3.74

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL T-44A

60 AIRCRAFT 157817 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
60 AIRCRAFT	MEAN	31.27	3.24	.63	.11
157817 HOURS	STD DEV	29.70	11.83	3.65	.37
	SKEWNESS	3.99	6.81	6.91	2.29

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL AV-8A

22 AIRCRAFT 1992 HOURS

MARINE

	TRAINING -----	-1.5G -----	-.5G -----	.25G -----	2.5G -----
22 AIRCRAFT MEAN		4.14	87.95	2797.95	15288.20
1992 HOURS STD DEV		4.94	51.52	1497.34	2514.68
	SKEWNESS	3.69	3.00	2.39	.72
		3.5G -----	5.0G -----	7.0G -----	8.0G -----
22 AIRCRAFT MEAN		7718.55	1339.06	11.07	.44
1992 HOURS STD DEV		1214.81	238.29	7.17	.71
	SKEWNESS	.82	.51	2.09	4.02

MARINE

	COMBAT -----	-1.5G -----	-.5G -----	.25G -----	2.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*
		3.5G -----	5.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL AV-8A

96 AIRCRAFT 62924 HOURS

MARINE

	TRAINING -----	-1.5G -----	-.5G -----	.25G -----	2.5G -----
96 AIRCRAFT MEAN		4.07	45.71	1361.05	11906.19
62924 HOURS STD DEV		3.33	28.53	619.23	1937.76
	SKEWNESS	1.37	2.92	4.08	.16
		3.5G -----	5.0G -----	7.0G -----	8.0G -----
96 AIRCRAFT MEAN		6382.86	1514.01	32.99	3.32
62924 HOURS STD DEV		1182.66	349.61	20.72	2.66
	SKEWNESS	.32	-.13	2.06	1.52

MARINE

	COMBAT -----	-1.5G -----	-.5G -----	.25G -----	2.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*
		3.5G -----	5.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

DATA FROM
7-81 THRU 6-82MODEL TAV-8A

4 AIRCRAFT 744 HOURS

MARINE

	TRAINING -----	-1.5G -----	-.5G -----	.25G -----	2.5G -----
4 AIRCRAFT MEAN		1.39	8.23	356.23	7237.84
744 HOURS STD DEV		**	**	**	**
	SKEWNESS	**	**	**	**

		3.5G -----	5.0G -----	7.0G -----	8.0G -----
4 AIRCRAFT MEAN		3253.04	208.06	1.86	.00
744 HOURS STD DEV		**	**	**	**
	SKEWNESS	**	**	**	**

MARINE

	COMBAT -----	-1.5G -----	-.5G -----	.25G -----	2.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

		3.5G -----	5.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA
THRU 6-82MODEL TAV-8A

8 AIRCRAFT 5223 HOURS

MARINE

	TRAINING -----	-1.5G -----	-.5G -----	.25G -----	2.5G -----
8 AIRCRAFT MEAN		1.61	11.85	404.73	8412.72
5223 HOURS STD DEV		.90	6.59	70.89	873.45
	SKEWNESS	-.48	.39	-.13	.09
		3.5G -----	5.0G -----	7.0G -----	8.0G -----
8 AIRCRAFT MEAN		4101.97	621.44	2.88	.19
5223 HOURS STD DEV		520.24	168.67	2.66	.43
	SKEWNESS	-.69	-.12	.65	1.78

MARINE

	COMBAT -----	-1.5G -----	-.5G -----	.25G -----	2.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*
		3.5G -----	5.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

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APPENDIX A

OUT-OF-SERVICE MODELS AND MODELS WHICH HAVE NOT REPORTED
COUNTING ACCELEROMETER DATA DURING THE PREVIOUS 12 MONTHS

ALL DATA

MODEL F-4JBA

14 AIRCRAFT 8102 HOURS

	DIAMOND -----	6.0G -----	7.0G -----	8.5G -----	10.0G -----
14 AIRCRAFT	MEAN	502.35	164.78	21.16	1.73
5418 HOURS	STD DEV	118.81	82.68	13.94	1.23
	SKEWNESS	.22	.78	.49	.53

	SOLO -----	6.0G -----	7.0G -----	8.5G -----	10.0G -----
10 AIRCRAFT	MEAN	2220.24	797.59	143.85	12.38
2684 HOURS	STD DEV	573.11	298.17	95.53	18.68
	SKEWNESS	-.30	-.05	1.55	2.40

		6.0G -----	7.0G -----	8.5G -----	10.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

		6.0G -----	7.0G -----	8.5G -----	10.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL F-11ABA

12 AIRCRAFT 3744 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
12 AIRCRAFT MEAN		5414.80	1826.99	520.71	188.84
3744 HOURS STD DEV		2263.48	740.91	208.44	86.14
	SKEWNESS	-.39	-.65	-.79	-.37

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL F-11ABA

11 AIRCRAFT 4400 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
11 AIRCRAFT	MEAN	740.74	192.71	12.43	3.88
4400 HOURS	STD DEV	217.97	62.76	7.33	7.05
	SKEWNESS	.19	.26	.95	2.32

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL A-1H

28 AIRCRAFT 7290 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
22 AIRCRAFT MEAN		263.05	94.29	6.31	.00
374 HOURS STD DEV		**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
28 AIRCRAFT MEAN		322.42	89.29	14.84	.00
6916 HOURS STD DEV		77.52	27.19	6.46	.00
	SKEWNESS	1.14	1.22	1.07	.00

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL A-1J

4 AIRCRAFT

917 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
1 AIRCRAFT	MEAN	.00	.00	.00	.00
32 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
4 AIRCRAFT	MEAN	306.82	125.89	17.28	.00
885 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL EKA-3B

20 AIRCRAFT

9742 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
19 AIRCRAFT	MEAN	354.19	65.33	21.52	3.53
8334 HOURS	STD DEV	289.18	60.88	23.25	4.26
	SKEWNESS	.85	1.77	1.98	1.96

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
5 AIRCRAFT	MEAN	99.38	6.56	.00	.00
1408 HOURS	STD DEV	52.68	9.15	.00	.00
	SKEWNESS	.71	1.36	.00	.00

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL A-4B

58 AIRCRAFT 23177 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
55 AIRCRAFT	MEAN	681.15	238.03	49.07	7.87
20376 HOURS	STD DEV	358.28	164.65	46.69	9.80
	SKEWNESS	.67	1.04	2.09	2.14

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
8 AIRCRAFT	MEAN	268.45	64.34	10.94	.99
2800 HOURS	STD DEV	245.06	92.00	18.99	1.89
	SKEWNESS	.55	1.39	1.73	1.67

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL TA-4B

10 AIRCRAFT 3976 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
10 AIRCRAFT MEAN		745.68	292.32	83.97	13.39
3976 HOURS STD DEV		480.64	221.15	68.00	17.49
	SKEWNESS	-.03	.26	.92	1.49

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL A-4G

16 AIRCRAFT 15502 HOURS

NAVY

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
16 AIRCRAFT	MEAN	1978.65	316.40	36.62	5.30
15502 HOURS	STD DEV	491.41	110.99	15.52	4.06
	SKEWNESS	.10	-.04	.05	.84

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G ----	6.0G ----	7.0G ----	8.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL TA-4G

4 AIRCRAFT

4674 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
4 AIRCRAFT	MEAN	780.06	90.24	7.31	.95
4674 HOURS	STD DEV	107.06	8.76	2.96	3.05
	SKEWNESS	.02	-.38	1.01	1.03

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL A-5A

30 AIRCRAFT 11790 HOURS

NAVY

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
30 AIRCRAFT MEAN		579.58	128.26	9.04	.89
11790 HOURS STD DEV		487.22	42.19	4.68	1.00
	SKEWNESS	4.57	.57	.75	1.63

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL A-5B

5 AIRCRAFT

985 HOURS

NAVY

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
5 AIRCRAFT	MEAN	125.50	13.83	1.01	.00
985 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL RA-5C

129 AIRCRAFT 160529 HOURS

NAVY

	TRAINING -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
129 AIRCRAFT	MEAN	198.27	11.94	.88	.16
139664 HOURS	STD DEV	110.59	25.27	1.95	.65
	SKEWNESS	2.43	8.28	2.70	3.44

	COMBAT -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
94 AIRCRAFT	MEAN	931.07	99.95	13.46	.66
20865 HOURS	STD DEV	435.85	70.01	18.99	1.29
	SKEWNESS	3.15	3.41	6.42	3.66

MARINE

	TRAINING -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL A-6A

416 AIRCRAFT 397673 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
386 AIRCRAFT	MEAN	1275.66	409.52	66.85	5.99
232860 HOURS	STD DEV	455.87	216.84	55.67	8.55
	SKEWNESS	.79	1.70	3.41	7.10

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
197 AIRCRAFT	MEAN	1081.91	451.75	110.41	13.06
38369 HOURS	STD DEV	267.48	153.44	56.44	7.62
	SKEWNESS	4.34	4.62	3.33	2.05

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
195 AIRCRAFT	MEAN	915.95	227.30	31.57	2.79
100003 HOURS	STD DEV	350.99	133.51	28.49	4.27
	SKEWNESS	.54	1.19	2.32	3.04

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
77 AIRCRAFT	MEAN	457.85	149.86	23.43	1.37
26440 HOURS	STD DEV	211.51	110.44	21.43	3.45
	SKEWNESS	1.11	2.92	3.29	7.09

MODEL NA-6A

8 AIRCRAFT 5393 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
8 AIRCRAFT	MEAN	106.87	20.74	4.05	1.08
5393 HOURS	STD DEV	92.22	26.43	5.59	1.46
	SKEWNESS	.62	.84	.74	.83

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL A-6B

18 AIRCRAFT 11964 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
18 AIRCRAFT MEAN		523.51	127.72	17.36	2.84
10043 HOURS STD DEV		155.98	53.34	14.34	4.97
	SKEWNESS	-.98	-.27	.96	2.28

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
10 AIRCRAFT MEAN		301.71	91.54	9.41	1.92
1921 HOURS STD DEV		101.45	55.09	7.42	2.85
	SKEWNESS	.63	1.27	1.77	2.18

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL A-6C

12 AIRCRAFT 7282 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
12 AIRCRAFT MEAN		960.17	311.66	15.27	.89
6983 HOURS STD DEV		460.22	159.61	13.07	.77
	SKEWNESS	-.10	-.38	.37	.36

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
3 AIRCRAFT MEAN		581.03	302.66	58.59	9.70
299 HOURS STD DEV		**	**	**	**
	SKEWNESS	**	**	**	**

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL A-7H

41 AIRCRAFT

460 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
41 AIRCRAFT	MEAN	438.02	183.86	16.92	3.87
460 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL KC-130F

12 AIRCRAFT 17648 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
12 AIRCRAFT	MEAN	6.76	.42	.08	.00
17648 HOURS	STD DEV	5.79	.51	.22	.00
	SKEWNESS	-.38	.30	1.82	.00

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL AF-1E

21 AIRCRAFT 4527 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
21 AIRCRAFT MEAN		563.04	125.53	22.27	3.60
4527 HOURS STD DEV		200.25	52.92	16.14	4.72
	SKEWNESS	.29	.61	1.63	2.00

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL F-4A

27 AIRCRAFT 17193 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
27 AIRCRAFT	MEAN	794.95	261.01	66.29	11.89
17193 HOURS	STD DEV	275.55	127.26	42.65	8.70
	SKEWNESS	.09	.33	.71	1.19

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL TF-4A

4 AIRCRAFT

433 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
4 AIRCRAFT	MEAN	135.48	23.72	3.32	.00
433 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL F-4B

611 AIRCRAFT 871204 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
573 AIRCRAFT	MEAN	1918.80	666.05	190.93	46.54
452278 HOURS	STD DEV	1116.51	507.34	211.25	75.16
	SKEWNESS	1.84	2.14	3.28	5.39

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
291 AIRCRAFT	MEAN	1137.73	405.31	129.20	31.32
108405 HOURS	STD DEV	372.90	132.70	67.31	31.02
	SKEWNESS	2.98	1.94	4.10	8.73

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
336 AIRCRAFT	MEAN	2308.28	749.06	184.98	40.80
203787 HOURS	STD DEV	1197.25	522.21	193.15	60.69
	SKEWNESS	1.25	1.61	2.08	3.35

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
226 AIRCRAFT	MEAN	2221.18	864.39	225.90	47.53
106735 HOURS	STD DEV	695.10	341.03	155.65	51.23
	SKEWNESS	1.47	1.22	2.23	4.40

ALL DATA

MODEL F-6A

46 AIRCRAFT 17986 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
29 AIRCRAFT	MEAN	190.91	25.88	1.99	.20
12399 HOURS	STD DEV	143.14	29.94	2.18	.75
	SKEWNESS	2.41	2.60	1.96	2.92

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
26 AIRCRAFT	MEAN	147.15	17.74	.53	.00
5587 HOURS	STD DEV	32.97	7.42	.68	.00
	SKEWNESS	1.24	.80	2.11	.00

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL F-8A

48 AIRCRAFT 33043 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
48 AIRCRAFT	MEAN	678.64	171.70	32.28	5.44
33043 HOURS	STD DEV	330.20	100.28	22.83	4.33
	SKEWNESS	.32	.50	.75	1.38

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL RF-8A

28 AIRCRAFT 20290 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
23 AIRCRAFT	MEAN	317.32	80.22	13.37	2.05
15203 HOURS	STD DEV	120.58	36.11	7.56	1.88
	SKEWNESS	.56	.52	.61	1.90

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
4 AIRCRAFT	MEAN	221.00	34.00	5.73	5.73
355 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
10 AIRCRAFT	MEAN	151.04	28.24	4.41	.56
4726 HOURS	STD DEV	49.30	13.23	3.03	.99
	SKEWNESS	-.68	.20	.42	1.68

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
1 AIRCRAFT	MEAN	.00	.00	.00	.00
6 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

ALL DATA

MODEL TF-8A

30 AIRCRAFT

4924 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
30 AIRCRAFT	MEAN	1274.72	393.67	82.63	14.88
4924 HOURS	STD DEV	354.70	139.02	33.41	6.09
	SKEWNESS	.88	2.10	2.48	.98

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL F-8B

53 AIRCRAFT 40015 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
46 AIRCRAFT	MEAN	813.00	203.68	34.52	3.65
29272 HOURS	STD DEV	316.12	100.90	23.43	3.94
	SKEWNESS	.99	1.13	1.73	2.98

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
36 AIRCRAFT	MEAN	778.09	148.63	19.24	2.49
10743 HOURS	STD DEV	188.70	53.00	9.18	2.34
	SKEWNESS	1.26	1.68	1.46	2.06

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL F-8C

87 AIRCRAFT 76054 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
78 AIRCRAFT	MEAN	875.42	217.67	38.78	4.89
53012 HOURS	STD DEV	534.39	164.74	37.06	6.76
	SKEWNESS	1.20	1.14	1.60	2.57

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
11 AIRCRAFT	MEAN	848.92	194.84	49.77	6.46
1689 HOURS	STD DEV	575.01	119.04	27.36	6.78
	SKEWNESS	.22	.30	.17	1.45

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
37 AIRCRAFT	MEAN	1217.83	346.89	67.32	10.17
20851 HOURS	STD DEV	370.14	107.60	22.36	4.73
	SKEWNESS	1.83	1.83	1.66	.05

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
11 AIRCRAFT	MEAN	748.69	333.97	61.52	9.71
502 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

ALL DATA

MODEL F-8D

101 AIRCRAFT 70988 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
93 AIRCRAFT	MEAN	1176.54	326.40	68.29	11.47
49588 HOURS	STD DEV	490.92	154.19	37.61	7.70
	SKEWNESS	.55	.48	.72	1.25

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
15 AIRCRAFT	MEAN	1380.67	394.15	107.24	22.87
1060 HOURS	STD DEV	468.87	79.59	21.81	6.83
	SKEWNESS	2.59	.29	.19	.71

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
46 AIRCRAFT	MEAN	826.64	216.72	45.39	8.03
19583 HOURS	STD DEV	398.11	118.51	30.75	5.85
	SKEWNESS	.83	.90	1.13	1.50

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
11 AIRCRAFT	MEAN	546.18	88.42	8.42	4.32
758 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

MODEL F-8E

248 AIRCRAFT 198601 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
243 AIRCRAFT	MEAN	1994.36	610.43	131.38	19.66
125946 HOURS	STD DEV	717.23	205.58	53.09	11.45
	SKEWNESS	1.87	1.50	1.62	2.23

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
103 AIRCRAFT	MEAN	1074.97	372.62	92.68	17.22
27936 HOURS	STD DEV	193.19	101.22	41.20	15.20
	SKEWNESS	.06	.97	3.20	5.50

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
88 AIRCRAFT	MEAN	1551.79	453.60	92.16	15.17
26217 HOURS	STD DEV	451.22	138.34	35.57	9.01
	SKEWNESS	.49	.04	.50	1.61

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
52 AIRCRAFT	MEAN	1334.99	460.44	118.91	19.35
18501 HOURS	STD DEV	373.38	123.04	28.68	8.02
	SKEWNESS	3.39	.45	.60	1.58

ALL DATA

MODEL DF-8F

13 AIRCRAFT

9599 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
13 AIRCRAFT	MEAN	405.48	91.31	11.23	.82
9599 HOURS	STD DEV	271.17	85.23	15.41	1.65
	SKEWNESS	.49	.76	1.93	1.35

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL F-8H

87 AIRCRAFT 85490 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
87 AIRCRAFT	MEAN	1664.03	519.64	101.80	13.61
72270 HOURS	STD DEV	557.82	191.35	46.31	9.47
	SKEWNESS	.36	.78	.74	1.31

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
45 AIRCRAFT	MEAN	711.67	197.56	41.43	6.17
13220 HOURS	STD DEV	254.48	82.47	19.81	4.49
	SKEWNESS	2.35	2.77	2.28	1.32

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL F-8J

134 AIRCRAFT 128071 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
134 AIRCRAFT	MEAN	2136.29	647.37	121.76	15.13
100977 HOURS	STD DEV	726.37	267.49	63.60	18.24
	SKEWNESS	.89	.70	1.18	6.90

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
93 AIRCRAFT	MEAN	769.47	258.14	55.15	8.35
27094 HOURS	STD DEV	318.22	138.06	35.52	9.12
	SKEWNESS	2.48	2.94	2.90	3.75

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL F-8K

74 AIRCRAFT 41773 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
74 AIRCRAFT	MEAN	1659.73	518.96	111.98	13.66
41660 HOURS	STD DEV	745.33	247.92	60.18	9.15
	SKEWNESS	1.63	2.37	3.61	1.41

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
3 AIRCRAFT	MEAN	4194.50	1576.92	208.63	24.88
113 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL F-8L

36 AIRCRAFT 9856 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
36 AIRCRAFT MEAN		1711.41	498.06	122.95	19.19
9856 HOURS STD DEV		427.64	204.07	66.52	13.14
	SKEWNESS	.81	.84	1.31	1.17

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MODEL DF-8L

5 AIRCRAFT 2081 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
5 AIRCRAFT MEAN		657.85	168.35	25.46	2.33
2081 HOURS STD DEV		217.60	54.39	8.30	2.57
	SKEWNESS	-.29	-.40	-.08	.77

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL EF-10B

16 AIRCRAFT

9853 HOURS

NAVY

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
14 AIRCRAFT	MEAN	16.24	.00	.00	.00
7526 HOURS	STD DEV	10.06	.00	.00	.00
	SKEWNESS	-.59	.00	.00	.00

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
10 AIRCRAFT	MEAN	45.06	2.22	.00	.00
2327 HOURS	STD DEV	20.68	4.09	.00	.00
	SKEWNESS	2.16	2.52	.00	.00

MODEL F-11A

36 AIRCRAFT 22538 HOURS

NAVY

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
36 AIRCRAFT	MEAN	2796.39	593.37	80.02	10.38
22538 HOURS	STD DEV	916.87	259.16	60.36	10.36
	SKEWNESS	1.30	1.37	3.46	3.50

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G ----	5.0G ----	6.0G ----	7.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL WP-3A

4 AIRCRAFT 10059 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
4 AIRCRAFT MEAN		2.65	.11	.11	.00
10059 HOURS STD DEV		1.56	.30	.30	.00
	SKEWNESS	.31	.62	.62	.00

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT MEAN		*	*	*	*
0 HOURS STD DEV		*	*	*	*
	SKEWNESS	*	*	*	*

MODEL S-2D

67 AIRCRAFT 59015 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
67 AIRCRAFT	MEAN	33.25	7.71	1.77	.74
58445 HOURS	STD DEV	34.30	9.23	5.36	4.85
	SKEWNESS	1.72	1.98	6.51	7.25

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
8 AIRCRAFT	MEAN	25.35	2.10	.00	.00
570 HOURS	STD DEV	**	**	**	**
	SKEWNESS	**	**	**	**

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL S-2E

230 AIRCRAFT 598341 HOURS

NAVY

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
230 AIRCRAFT	MEAN	71.20	12.72	2.91	1.05
569460 HOURS	STD DEV	265.44	42.40	7.19	3.56
	SKEWNESS	5.23	8.57	2.30	2.56

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
65 AIRCRAFT	MEAN	40.67	7.47	1.14	.42
28881 HOURS	STD DEV	67.96	7.95	1.70	1.33
	SKEWNESS	5.07	2.05	2.66	5.00

MARINE

	TRAINING -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G -----	2.5G -----	3.0G -----	3.5G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL S-2G

48 AIRCRAFT 56173 HOURS

NAVY

	TRAINING -----	2.0G ----	2.5G ----	3.0G ----	3.5G ----
48 AIRCRAFT	MEAN	48.11	7.97	2.54	1.27
56173 HOURS	STD DEV	117.63	14.88	6.79	3.89
	SKEWNESS	5.18	2.04	2.57	2.71

	COMBAT -----	2.0G ----	2.5G ----	3.0G ----	3.5G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	2.0G ----	2.5G ----	3.0G ----	3.5G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	2.0G ----	2.5G ----	3.0G ----	3.5G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

ALL DATA

MODEL T-2A

147 AIRCRAFT 584869 HOURS

NAVY

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
147 AIRCRAFT	MEAN	591.14	44.72	4.84	.89
584869 HOURS	STD DEV	446.55	58.91	6.48	2.09
	SKEWNESS	.74	1.99	1.83	2.81

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	4.0G -----	5.0G -----	6.0G -----	7.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL T-2B

90 AIRCRAFT 155182 HOURS

NAVY

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
90 AIRCRAFT	MEAN	215.91	24.27	2.51	.38
155182 HOURS	STD DEV	244.44	38.78	4.09	.79
	SKEWNESS	3.00	3.71	3.42	1.63

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	5.0G -----	6.0G -----	7.0G -----	8.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL T-28C

51 AIRCRAFT 180050 HOURS

NAVY

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
51 AIRCRAFT	MEAN	1011.53	129.84	7.52	.52
180050 HOURS	STD DEV	1170.42	176.91	11.43	1.58
	SKEWNESS	-.02	.41	1.06	3.27

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G -----	4.0G -----	5.0G -----	6.0G -----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MODEL T-34B

77 AIRCRAFT 202447 HOURS

NAVY

	TRAINING -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
77 AIRCRAFT	MEAN	1376.68	204.45	19.49	1.05
202447 HOURS	STD DEV	1496.15	246.86	24.66	4.43
	SKEWNESS	.04	.40	.83	7.06

	COMBAT -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

MARINE

	TRAINING -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

	COMBAT -----	3.0G ----	4.0G ----	5.0G ----	6.0G ----
0 AIRCRAFT	MEAN	*	*	*	*
0 HOURS	STD DEV	*	*	*	*
	SKEWNESS	*	*	*	*

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APPENDIX B

THE DETERMINATION OF SAMPLE STATISTICS
FOR COUNTING ACCELEROMETER DATA

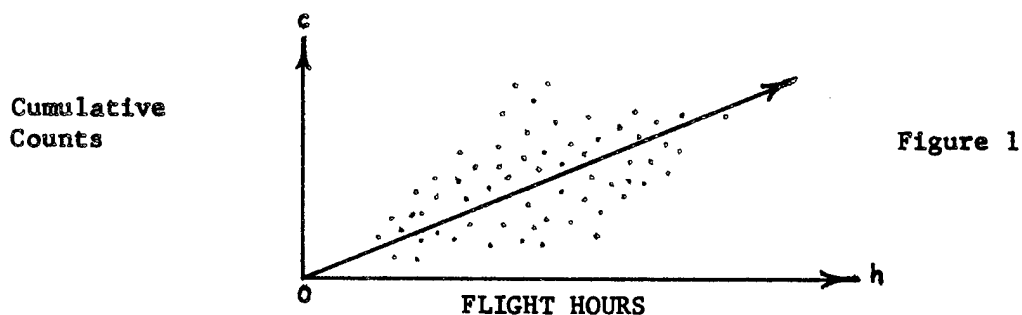
APPENDIX B

Subj: The Determination of Sample Statistics for Counting Accelerometer Data

- Ref: (a) Browlee, K.A., "Statistical Theory and Methodology in Science and Engineering," Wiley 1965, pp. 358-359
 (b) Dixon & Massey, Introduction to Statistical Analysis, McGraw-Hill, Second Edition, 1957, pp. 194-195

1. The purpose of this appendix is to describe the methods used at NAVAIRDEVCEEN in calculating statistics describing counting accelerometer data. The subsequent outlined sequence is repeated for each aircraft model, for each mission category, and for each g-level where there is sufficient data.

2. These are the methods used for determining sample statistics. Consider a scatter diagram of cumulative counts (at any g-level) vs. flight hours,



where each dot represents the cumulative counts and flight hours accrued by an individual serial number which is flying or has flown.

Let h_i be the total quality control accepted flight hours for the i^{th} plane ($i=1, 2, \dots, N$)

Let c_i be the cumulative counts during the h_i hours for the i^{th} plane ($i=1, 2, \dots, N$)

N is the total number of aircraft of this model and mission category for which there is recorded information.

Then

$$(1) \quad b = \frac{\sum_{i=1}^N c_i h_i}{\sum_{i=1}^N h_i^2} \quad \text{where } b \text{ is slope of line (Figure 1) through origin fitted by least squares.}$$

$$(2) \quad \bar{x} = 1000b \quad \text{estimated mean load exceedances at 1000 hours}$$

$$(3) \quad \bar{h} = \frac{\sum_{i=1}^N h_i}{N} \quad \text{average flight hours}$$

$$(4) \quad \hat{\sigma}_{ch}^2 = \frac{\sum_{i=1}^N (c_i - bh_i)^2}{N-1} \quad \text{estimator of the population standard error squared of the regression}$$

$$\hat{\sigma}_{ch} = \sqrt{\hat{\sigma}_{ch}^2} \quad \text{estimator of the population standard error of the regression}$$

$$(5) \quad S = \sqrt{1000 \frac{\hat{\sigma}_{ch}^2}{h}} \quad \text{estimated standard deviation (counts at 1000 hours) of the load exceedances for each g-level}$$

$$(6) \quad A_3 = \frac{\sum_{i=1}^N (c_i - bh_i)^3}{N \hat{\sigma}_{ch}^3} \quad \text{estimated skewness}$$

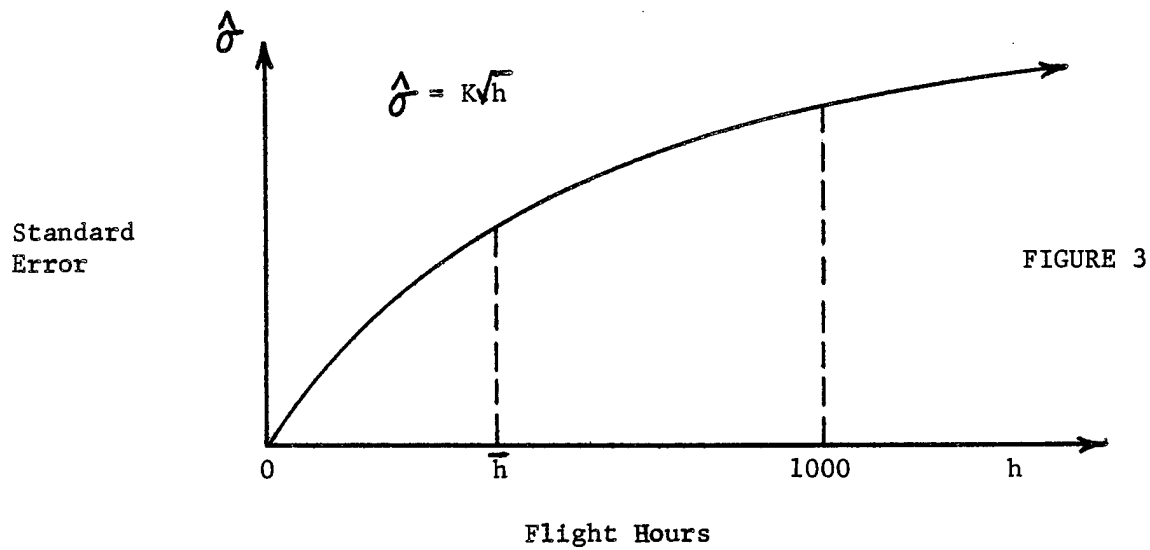
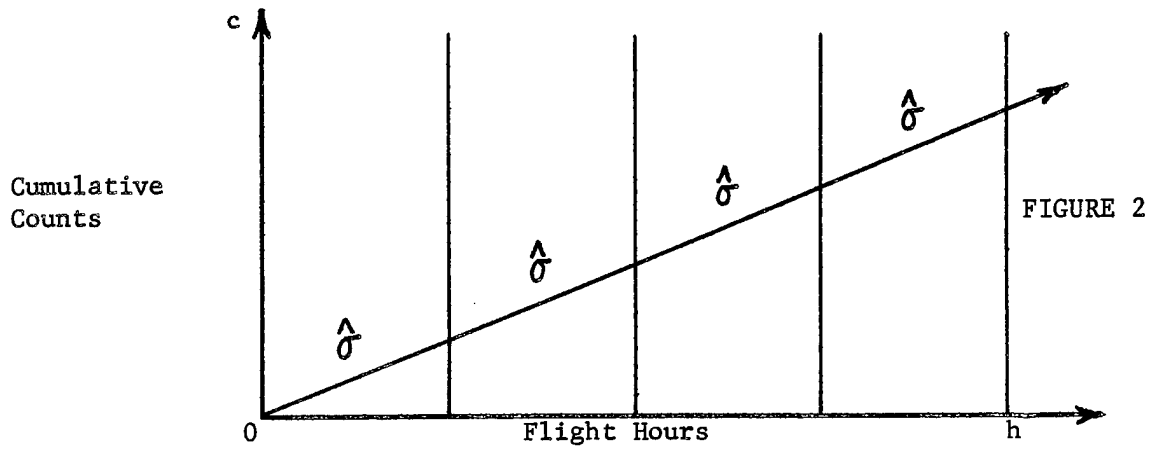
3. The following is the explanation and justification for these methods:

Aircraft which do not have any flight hours must have zero counts; therefore, the line in figure 2 must go through (0,0). Brownlee (reference (a)) describes the methods for fitting a least squares line through the origin (0,0). The slope of this line is the estimated mean exceedance rate (per hour). Multiplying this rate by 1000 will result in exceedances at 1000 hours (equation (2)). Multiplying b by any other h number of hours will result in mean exceedances at h hours.

If the data in figure 1 were separated into flight hour intervals (see figure 2) and the standard error in each interval were plotted against average flight hours (see figure 3) in that interval, the resultant curve is assumed to have the square root functional form.* Due to limitations in sample size, these individual $\hat{\sigma}$'s could not be determined accurately; thus, it was necessary to calculate a single $\hat{\sigma}_{ch}$ for all h combined and apply it at \bar{h} .** Equation (5) uses figure 3 to convert $\hat{\sigma}_{ch}$ at \bar{h} to S at 1000 hours.

* This is partially justified by the fact that the variance of a sum of independent random variables is equal to the sum of the independent variances. Unreported statistical tests performed at NAVAIRDEVCON show that figure 3 is a reasonable fit to actual data. It should be noted that the $\hat{\sigma}$'s in figure 2 are estimated by equation (4), but each $\hat{\sigma}$ was calculated using the data points in the respective interval.

**The estimated standard error $\hat{\sigma}_{ch}$ is used as the standard error of estimate for a hypothetical distribution of planes all having \bar{h} hours. This follows from work in reference (b).



If one wanted the standard error at some other value of hours h , he would simply replace 1000 in equation (5) by that value of hours h , and the appropriate standard error would result.

Skewness A_3 is computed in equation (6). This measure indicates whether more airplane load exceedances are above the mean line or below the mean line. If:

- $A_3 < 0$ More load exceedances are above mean line than below
 $A_3 = 0$ Equal number of load exceedances above and below mean
 $A_3 > 0$ More load exceedances are below mean line than above

(Strictly speaking a distribution is symmetrical only if all its odd moments are zero; however, the above statement is approximately true.)

4. For ease of computation, equation (4) can be expanded as follows:

$$\begin{aligned}
 (N-1) \hat{\sigma}_{ch}^2 &= \sum_{i=1}^N (c_i - b h_i)^2 \\
 (N-1) \hat{\sigma}_{ch}^2 &= \sum_{i=1}^N (c_i^2 - 2b c_i h_i + b^2 h_i^2) \\
 (7) (N-1) \hat{\sigma}_{ch}^2 &= \sum_{i=1}^N c_i^2 - 2b \sum_{i=1}^N c_i h_i + b^2 \sum_{i=1}^N h_i^2
 \end{aligned}$$

but

$$b = \frac{\sum_{i=1}^N c_i h_i}{\sum_{i=1}^N h_i^2}$$

and (7) can be reduced to

$$(N-1) \hat{\sigma}_{ch}^2 = \sum_{i=1}^N c_i^2 - 2b \sum_{i=1}^N c_i h_i + b \frac{\sum_{i=1}^N c_i h_i \sum_{i=1}^N h_i^2}{\sum_{i=1}^N h_i^2}$$

$$(8) \hat{\sigma}_{ch}^2 = \frac{\left[\sum_{i=1}^N c_i^2 - b \sum_{i=1}^N c_i h_i \right]}{(N-1)}$$

Equation (8) will be used in lieu of equation (4) in determining $\hat{\sigma}_{ch}^2$.

5. An example using training Navy data, 12 airplanes 4.0G level:

<u>Number</u>	<u>Counts (c_i)</u>	<u>Hours (h_i)</u>
1	1567	1341.7
2	649	618.2
3	1114	1100.8
4	5	27.3
5	768	691.7
6	23	139.6
7	396	555.1
8	718	831.3
9	854	839.1
10	536	695.4
11	910	775.3
12	160	233.0

The following are tabulated:

$$\sum_{i=1}^N h_i = 7848.5$$

$$\sum_{i=1}^N c_i = 7700$$

$$\sum_{i=1}^N c_i h_i = 6913341.6$$

$$\sum_{i=1}^N h_i^2 = 6735017.87$$

$$\sum_{i=1}^N c_i^2 = 7250716.00$$

$$\sum_{i=1}^N (c_i - b h_i)^3 = -7082690$$

and are used in the following equations:

$$(1) \quad b = \frac{6913341.6}{6735017.87} = 1.02647 \text{ cts. per hr.}$$

$$(2) \quad \bar{x} = 1000 (1.02647) = 1026.47 \text{ cts. at 1000 hours}$$

$$(3) \quad \bar{h} = \frac{7848.5}{12} = 654.04 \text{ hours}$$

$$(4) \quad \hat{\sigma}_{ch}^2 = \frac{7250716 - 1.02647 (6913341.6)}{11} = 14034 \quad \hat{\sigma}_{ch} = 118.5$$

$$(5) \quad s = \sqrt{1000 (14034)/654} = 146.46 \text{ cts. at 1000 hours}$$

$$(6) \quad A_3 = \frac{-7082690}{12 (118.5)^3} = -.36$$

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NAVAIR (AIR-954)	20
(2 FOR RETENTION, 1 FOR THE FOLLOWING	
AIR-410, AIR-411, AIR-320, AIR-411B4, AIR-1014, AIR-510,	
AIR-4114, AIR-5102, AIR-5103, AIR-5302, AIR-530221,	
AIR-530212, PMA-234, PMA-231, PMA-235, PMA-240,	
PMA-244, PMA-257)	
COMNAVIAIRLANT (CODE 50A1 AND CODE 60)	2
COMNAVIAIRPAC (TECHNICAL LIBRARY)	1
COMMATVAQWINGPAC, OAK HARBOR, WA	1
COMTACWINGLANT, OCEANA, VA	1
COMNAVSAFCEN	1
COMLIGHTATKWINGPAC, LEMORE, CA	1
COMLIGHTATKWING ONE, CECIL FIELD, FL	1
COMFITWING ONE, OCEANA, VA	1
COMFITAEWINGPAC, SAN DIEGO, CA	1
COMPATWINGSLANT, BRUNSWICK, ME	1
COMPATWINGSPAC, MOFFETT FIELD, CA	1
COMTACSUPWING ONE, NORFOLK, VA	1
NAVAIRSYSOMREPLANT	1
NAVAIREWORKFAC, ALAMEDA (CODES 300, 310, AND 052)	3
NAVAIREWORKFAC, CHERRY POINT (CODES 300, 310, AND 321)	3
NAVAIREWORKFAC, JACKSONVILLE (CODES 300, 310, AND 05A)	3
NAVAIREWORKFAC, NORFOLK (CODES 300, 310, AND 05A)	3
NAVAIREWORKFAC, NORTH ISLAND (CODES 05A, 300, 310, AND 52030)	4
NAVAIREWORKFAC, PENSACOLA (CODES 300 AND 310)	2
CNO	7
(ONE FOR CODES OP-05M, OP-50, OP-501D, OP-506, OP-51,	
OP-52, OP-59)	
PACIFIC MISSILE TEST CENTER, POINT MUGU, CA	2
(CODE 6862, CODE 1243)	
COMFAIRWESTPAC, FPO SEATTLE (CODE 724.1)	1
CGSECONDMAW	1
NAVAIR (AIR-954)	1

PAGE 1 OF 2

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